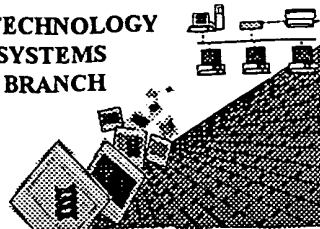


BIOTECHNOLOGY
SYSTEMS
BRANCH



BE
#7

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/019,980
Source: PJ/10
Date Processed by STIC: 5/14/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



PCT10

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/019,980

DATE: 05/14/2002
 TIME: 16:23:20

Input Set : A:\PTO.VSK.txt
 Output Set: N:\CRF3\05142002\J019980.raw

PP 3,5-6

3 <110> APPLICANT: Berthelsen, Jens
 4 Toma, Salvatore
 5 Isacchi, Antonella
 7 <120> TITLE OF INVENTION: Tankyrase Homolog Protein (THP), Nucleic Acids, And Methods
 Related To
 8 The Same
 10 <130> FILE REFERENCE: PHRM0373
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/019,980
 C--> 12 <141> CURRENT FILING DATE: 2002-04-11
 12 <150> PRIOR APPLICATION NUMBER: 09/350,982
 13 <151> PRIOR FILING DATE: 1999-07-09
 15 <150> PRIOR APPLICATION NUMBER: PCT/EP00/06609
 16 <151> PRIOR FILING DATE: 2000-07-03
 18 <160> NUMBER OF SEQ ID NOS: 10
 20 <170> SOFTWARE: PatentIn version 3.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 20
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: PCR Primers
 30 <400> SEQUENCE: 1
 31 gagtattttgt tacaacacgg 20
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 18
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Artificial Sequence
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: PCR Primers
 42 <400> SEQUENCE: 2 18
 43 aatctccttc agctcctt
 46 <210> SEQ ID NO: 3
 47 <211> LENGTH: 4512
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Homo sapiens
 51 <220> FEATURE:
 52 <221> NAME/KEY: misc_feature
 53 <222> LOCATION: (1124)..(1124)
 54 <223> OTHER INFORMATION: N is any nucleic acid
 57 <220> FEATURE:
 58 <221> NAME/KEY: misc_feature
 59 <222> LOCATION: (2672)..(2672)
 60 <223> OTHER INFORMATION: N is any nucleic acid
 63 <400> SEQUENCE: 3

Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,980

DATE: 05/14/2002
TIME: 16:23:21

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\05142002\J019980.raw

64 gaattccgcg ggcggccagga tcatgtcggg tgcgcgctgc gccggcgggg gagcggcctg 60
66 cgcgagcgcc ggcggccagg ccgtggagcc ggccgcccga gagctgttcg aggcgtgccg 120
68 caacggggac gtggaacgag tcaagaggct ggtgacgcct gagaagggtga acagccgcga 180
70 cacggcgggc aggaaatcca ccccgctgca cctcgccgca ggttttgggc ggaaagacgt 240
72 agttgaatat ttgcttcaga atgggtgcaaa tgtccaagca cgtgatgatg ggggccttat 300
74 tcctcttcat aatgcatgct cttttggtca tgcgaagta gtcaatctcc ttttgcgaca 360
76 tgggtgcagac cccaatgctc gagataattg gaattatact cctctccatg aagctgcaat 420
78 taaaggaaag attgatgttt gcattgtgct gttacagcat ggagctgagc caaccatccg 480
80 aaatacagat ggaaggacag cattggattt agcagatcca tctgccaag cagtgttac 540
82 tgggtgaatat aagaaagatg aactcttaga aagtgccagg agtggcaatg aagaaaaaat 600
84 gatggctcta ctcacaccat taaatgtcaa ctgccacgca agtgcagcga gaaagtcaac 660
86 tccattacat ttggcagcag gatataacag agtaaagatt gtacagctgt tactgcaaca 720
88 tggagctgat gtccatgcta aagataaagg tgatctggtt ccattacaca atgcctgttc 780
90 ttatggtcat tatgaagtaa ctgaactttt ggtcaagcat ggtgcctgtg taaatgcaat 840
92 ggacttgttg caattcactc ctcttcatga ggcagcttct aagaacaggg ttgaagtatg 900
94 ttctcttctc ttaagttatg gtgcagaccc aactctgctc aattgtcaca ataaaagtgc 960
96 tatagacttg gctccacac cacagttaaa agaaagatta gcatatgaat ttaaaggcca 1020
98 ctgcttgctg caagctgcac gagaagctga tgttactcga atcaaaaaac atctctctct 1080
100 ggaaatgggtg aatttcaagc atcctcaaac acatgaaaca gcantgcatt gtgctgctgc 1140
102 atctccatat cccaaaagaa agcaaatatg tgaactgttg ctaagaaaag gagcaamcat 1200
104 caatgaaaag actaaagaat tcttgactcc tctgcacgtg gcatctgaga aagctcataa 1260
106 tgatrttggt gaagtagtgg tgaacatga agcaaagggt aatgctctgg ataactcttg 1320
108 tcagacttct ctacacagag ctgcatattg tggctatcta caaacctgcc gcctactcct 1380
110 gagctatggg tgtgatccta acattatatc ccttcagggc tttactgctt tacagatggg 1440
112 aaatgaaaat gtacagcaac tcctccaaga gggatatctc ttaggtaatt cagaggcaga 1500
114 cagacaattg ctggaagctg caaaggctgg agatgtcgaa actgtaaaaa aactgtgtac 1560
116 tgttcagagt gtcaactgca gagacattga agggcgctcag tctacaccac ttcattttgc 1620
118 agctgggtat aacagagtggt ccgtgggtgga atatctgcta cagcatggag ctgatgtgca 1680
120 tgctaaagat aaagrrgsc ttgtacctt gcacaatgca tgttcttatg gacattatga 1740
122 agttgcagaa cttcttggtt aacatggagc agtagttaat gtagctgatt tatggaaatt 1800
124 tacaccttta catgaagcag cagcaaaagg aaaatatgaa atttgcaaac ttctgtctca 1860
126 gcatgggtgca gaccctacaa aaaaaaacag ggatggaaat actcctttgg atcttggtta 1920
128 agatggagat acagatattc aagatctgct taggggagat gcagctttgc tagatgctgc 1980
130 caagaagagt tgttttagcca gagtgaagaa gttgtcttct cctgataatg taaattgccg 2040
132 cgatacccaa ggcagacatt caacacctt acatttagca gctgggtata ataatttaga 2100
134 agttgcagag tatttggttac aacacggagc tgatgtgaat gcccaagaca aaggaggact 2160
136 tattccttta cataatgcag catcttacgg gcattgtgat gtagcagctc tactaataaa 2220
138 gtataatgca tgtgtcaatg ccacggacaa atgggcttct acacctttgc acgaagcagc 2280
140 ccaaaaggga cgaacacagc tttgtgcttt gktgctagcc catggagctg acccgactct 2340
142 taaaaatcag gaaggacaaa caccttttaga tttagtttca gcggatgatg tcagcgtctc 2400
144 tctgacagca gccatgcccc catctgctct gccctcttgt tacaagcctc aagtgtcaa 2460
146 tgggtgtgaga agccaggag ccaactgcaga tgcctctctc tcaggtccat ctagcccatc 2520
148 aagcctttct gcagccagca gtcttgacaa cttatctggg agtttttcag aactgtcttc 2580
150 agtagttagt tcaagtggaa cagagggtgc ttccagttt gagaaaaagg aggttcagg 2640
152 agtagatttt agcataactc aattcgtaag gnatcttggg cttgagcacc taatggatat 2700
154 atttgagaga gaacagatca ctttggtatg attagttgag atggggcaca aggagctgaa 2760
156 ggagattgga atcaatgctt atggacatag gcacaaacta attaaaggag tcgagagact 2820
158 tatctccgga caacaaggtc ttaaccata ttttaacttg aacacctctg gtagtggaac 2880
160 aattcttata gatctgtctc ctgatgataa agagtttcag tctgtggagg aagagatgca 2940

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,980

DATE: 05/14/2002
TIME: 16:23:21

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\05142002\J019980.raw

```

162 aagtacagtt cgagagcaca gagatggagg tcatgcaggt ggaatcttca acagatacaa 3000
164 tattctcaag attcagaagg tttgtaacaa gaaactatgg gaaagataca ctcaccggag 3060
166 aaaagaagtt tctgaagaaa accacaacca tgccaatgaa cgaatgctat ttcattgggtc 3120
168 tccttttgtg aatgcaatta tccacaaagg ctttgatgaa aggcattgct acatagggtg 3180
170 tatgtttgga gctggcattt attttgctga aaactcttcc aaaagcaatc aatatgtata 3240
172 tggaattgga ggaggtagtg ggtgtccagt tcacaaagac agatcttggt acatttgcca 3300
174 caggcagctg ctcttttgcc gggtaacctt gggaaagtct ttcctgcagt tcagtgcatt 3360
176 gaaaatggca cattctcctc cagggtcatca ctcagtcact ggtaggcccc gtgtaaatgg 3420
178 cctagcatta gctgaatatg ttatttacag aggagaacag gcttatcctg agtatttaat 3480
180 tacttaccag attatgaggc ctgaagggtat ggtcgatgga taaatagtta ttttaagaaa 3540
182 ctaattccac tgaacctaaa atcatcaaag cagcagtggc ctctacgttt tactcctttg 3600
184 ctgaaaaaaaa atcatcttgc ccacaggcct gtggcaaaaag gataaaaatg tgaacgaagt 3660
186 ttaacattct gacttgataa agctttaata atgtacagtg ttttctaaat atttctgtt 3720
188 ttttcagcac ttaacagat gccattccag gttaaactgg gttgtctgta ctaaattata 3780
190 aacagagtta acttgaacct tttatatgtt atgcattgat tctaacaac tgtaatgccc 3840
192 tcaacagaac taattttact aatacaatac tgtgttcttt aaaacacagc atttacctg 3900
194 aatacaattt catttgtaaa actgtaaata agagcttttg tactagcccc gtatttat 3960
196 acattgcttt gtaatatata tctgttttag aactgcagcg gtttacaaaa tttttcata 4020
198 tgtattgttc atctatactt gcatcttaca tcgtcatgat tgagtgatct ttacatttga 4080
200 ttccagaggg tatgttcagt tgttagttgg gaaagattga gttatcagat ttaatttgcc 4140
202 gatgggagcc tttatctgtc attagaaatc tttctcattt aagaacttat gaatatgctg 4200
204 aagatttaat ttgtgatacc tttgtatgta tgagacacat tccaaagaac tctaactatg 4260
206 ataggtcctg attactaaag aagcttcttt actggcctca atttctagct ttcattgttg 4320
208 aaaattttct gcagtccttc tgtgaaaatt agagcaaagt gctcctgttt ttagagaaa 4380
210 ctaaactctg ctgttgaaca attattgtgt tcttttcatt gaacataagt aggatgttac 4440
212 atttccaggg tgggaagggt aatcctaaat catttcccaa tctattctaa ttaccttaaa 4500
214 tctaaagggg aa 4512
217 <210> SEQ ID NO: 4
218 <211> LENGTH: 3498
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: PCR Primers
225 <220> FEATURE:
226 <221> NAME/KEY: CDS
227 <222> LOCATION: (1)..(3498)
228 <223> OTHER INFORMATION:
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (1102)..(1102)
234 <223> OTHER INFORMATION: Xaa is any amino acid
237 <220> FEATURE:
238 <221> NAME/KEY: misc_feature
239 <222> LOCATION: (2650)..(2650)
240 <223> OTHER INFORMATION: Xaa is any amino acid
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <223> OTHER INFORMATION: Xaa is any amino acid
248 <400> SEQUENCE: 4

```

Since Sequence 4 is a DNA
sequence, "n" must be
explained. Xaa's don't
have to be explained.
"n" is at location
1102 and at location 2650.

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/019,980

DATE: 05/14/2002
 TIME: 16:23:21

Input Set : A:\PTO.VSK.txt
 Output Set: N:\CRF3\05142002\J019980.raw

249	atg	tcg	ggt	cgc	cgc	tgc	gcc	ggc	ggg	gga	gcg	gcc	tgc	gcg	agc	gcc	48
250	Met	Ser	Gly	Arg	Arg	Cys	Ala	Gly	Gly	Ala	Ala	Cys	Ala	Ser	Ala		
251	1			5					10					15			
253	gcg	gcc	gag	gcc	gtg	gag	ccg	gcc	gcc	cga	gag	ctg	ttc	gag	gcg	tcg	96
254	Ala	Ala	Glu	Ala	Val	Glu	Pro	Ala	Ala	Arg	Glu	Leu	Phe	Glu	Ala	Cys	
255				20				25					30				
257	cgc	aac	ggg	gac	gtg	gaa	cga	gtc	aag	agg	ctg	gtg	acg	cct	gag	aag	144
258	Arg	Asn	Gly	Asp	Val	Glu	Arg	Val	Lys	Arg	Leu	Val	Thr	Pro	Glu	Lys	
259				35				40					45				
261	gtg	aac	agc	cgc	gac	acg	gcg	ggc	agg	aaa	tcc	acc	ccg	ctg	cac	ctc	192
262	Val	Asn	Ser	Arg	Asp	Thr	Ala	Gly	Arg	Lys	Ser	Thr	Pro	Leu	His	Leu	
263				50				55				60					
265	gcc	gca	ggt	ttt	ggg	cgg	aaa	gac	gta	ggt	gaa	tat	ttg	ctt	cag	aat	240
266	Ala	Ala	Gly	Phe	Gly	Arg	Lys	Asp	Val	Val	Glu	Tyr	Leu	Leu	Gln	Asn	
267	65			70							75				80		
269	ggt	gca	aat	gtc	caa	gca	cgt	gat	gat	ggg	ggc	ctt	att	cct	ctt	cat	288
270	Gly	Ala	Asn	Val	Gln	Ala	Arg	Asp	Asp	Gly	Gly	Leu	Ile	Pro	Leu	His	
271				85						90				95			
273	aat	gca	tgc	tct	ttt	ggt	cat	gct	gaa	gta	gtc	aat	ctc	ctt	ttg	cga	336
274	Asn	Ala	Cys	Ser	Phe	Gly	His	Ala	Glu	Val	Val	Asn	Leu	Leu	Leu	Arg	
275				100						105			110				
277	cat	ggt	gca	gac	ccc	aat	gct	cga	gat	aat	tgg	aat	tat	act	cct	ctc	384
278	His	Gly	Ala	Asp	Pro	Asn	Ala	Arg	Asp	Asn	Trp	Asn	Tyr	Thr	Pro	Leu	
279				115				120					125				
281	cat	gaa	gct	gca	att	aaa	gga	aag	att	gat	ggt	tgc	att	gtg	ctg	tta	432
282	His	Glu	Ala	Ala	Ile	Lys	Gly	Lys	Ile	Asp	Val	Cys	Ile	Val	Leu	Leu	
283				130				135				140					
285	cag	cat	gga	gct	gag	cca	acc	atc	cga	aat	aca	gat	gga	agg	aca	gca	480
286	Gln	His	Gly	Ala	Glu	Pro	Thr	Ile	Arg	Asn	Thr	Asp	Gly	Arg	Thr	Ala	
287	145			150							155			160			
289	ttg	gat	tta	gca	gat	cca	tct	gcc	aaa	gca	gtg	ctt	act	ggt	gaa	tat	528
290	Leu	Asp	Leu	Ala	Asp	Pro	Ser	Ala	Lys	Ala	Val	Leu	Thr	Gly	Glu	Tyr	
291				165					170				175				
293	aag	aaa	gat	gaa	ctc	tta	gaa	agt	gcc	agg	agt	ggc	aat	gaa	gaa	aaa	576
294	Lys	Lys	Asp	Glu	Leu	Leu	Glu	Ser	Ala	Arg	Ser	Gly	Asn	Glu	Glu	Lys	
295				180					185				190				
297	atg	atg	gct	cta	ctc	aca	cca	tta	aat	gtc	aac	tgc	cac	gca	agt	gat	624
298	Met	Met	Ala	Leu	Leu	Thr	Pro	Leu	Asn	Val	Asn	Cys	His	Ala	Ser	Asp	
299				195				200				205					
301	ggc	aga	aag	tca	act	cca	tta	cat	ttg	gca	gca	gga	tat	aac	aga	gta	672
302	Gly	Arg	Lys	Ser	Thr	Pro	Leu	His	Leu	Ala	Ala	Gly	Tyr	Asn	Arg	Val	
303				210				215				220					
305	aag	att	gta	cag	ctg	tta	ctg	caa	cat	gga	gct	gat	gtc	cat	gct	aaa	720
306	Lys	Ile	Val	Gln	Leu	Leu	Leu	Gln	His	Gly	Ala	Asp	Val	His	Ala	Lys	
307	225			230							235			240			
309	gat	aaa	ggt	gat	ctg	gta	cca	tta	cac	aat	gcc	tgt	tct	tat	ggt	cat	768
310	Asp	Lys	Gly	Asp	Leu	Val	Pro	Leu	His	Asn	Ala	Cys	Ser	Tyr	Gly	His	
311				245					250				255				
313	tat	gaa	gta	act	gaa	ctt	ttg	gtc	aag	cat	ggt	gcc	tgt	gta	aat	gca	816

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/019,980

DATE: 05/14/2002
 TIME: 16:23:21

Input Set : A:\PTO.VSK.txt
 Output Set: N:\CRF3\05142002\J019980.raw

314	Tyr	Glu	Val	Thr	Glu	Leu	Leu	Val	Lys	His	Gly	Ala	Cys	Val	Asn	Ala		
315					260				265					270				
317	atg	gac	ttg	tgg	caa	ttc	act	cct	ctt	cat	gag	gca	gct	tct	aag	aac		864
318	Met	Asp	Leu	Trp	Gln	Phe	Thr	Pro	Leu	His	Glu	Ala	Ala	Ser	Lys	Asn		
319			275					280					285					
321	agg	gtt	gaa	gta	tgt	tct	ctt	ctc	tta	agt	tat	ggt	gca	gac	cca	aca		912
322	Arg	Val	Glu	Val	Cys	Ser	Leu	Leu	Leu	Ser	Tyr	Gly	Ala	Asp	Pro	Thr		
323		290					295					300						
325	ctg	ctc	aat	tgt	cac	aat	aaa	agt	gct	ata	gac	ttg	gct	ccc	aca	cca		960
326	Leu	Leu	Asn	Cys	His	Asn	Lys	Ser	Ala	Ile	Asp	Leu	Ala	Pro	Thr	Pro		
327	305					310					315							
329	cag	tta	aaa	gaa	aga	tta	gca	tat	gaa	ttt	aaa	ggc	cac	tcg	ttg	ctg		1008
330	Gln	Leu	Lys	Glu	Arg	Leu	Ala	Tyr	Glu	Phe	Lys	Gly	His	Ser	Leu	Leu		
331					325				330					335				
333	caa	gct	gca	cga	gaa	gct	gat	gtt	act	cga	atc	aaa	aaa	cat	ctc	tct		1056
334	Gln	Ala	Ala	Arg	Glu	Ala	Asp	Val	Thr	Arg	Ile	Lys	Lys	His	Leu	Ser		
335			340					345				350						
W--> 337	ctg	gaa	atg	gtg	aat	ttc	aag	cat	cct	caa	aca	cat	gaa	aca	gca	ntg		1104
W--> 338	Leu	Glu	Met	Val	Asn	Phe	Lys	His	Pro	Gln	Thr	His	Glu	Thr	Ala	Xaa		
339		355						360				365						
341	cat	tgt	gct	gct	gca	tct	cca	tat	ccc	aaa	aga	aag	caa	ata	tgt	gaa		1152
342	His	Cys	Ala	Ala	Ala	Ser	Pro	Tyr	Pro	Lys	Arg	Lys	Gln	Ile	Cys	Glu		
343		370					375					380						
345	ctg	ttg	cta	aga	aaa	gga	gca	amc	atc	aat	gaa	aag	act	aaa	gaa	ttc		1200
W--> 346	Leu	Leu	Leu	Arg	Lys	Gly	Ala	Xaa	Ile	Asn	Glu	Lys	Thr	Lys	Glu	Phe		
347	385					390				395					400			
349	ttg	act	cct	ctg	cac	gtg	gca	tct	gag	aaa	gct	cat	aat	gat	rtt	gtt		1248
W--> 350	Leu	Thr	Pro	Leu	His	Val	Ala	Ser	Glu	Lys	Ala	His	Asn	Asp	Xaa	Val		
351				405					410				415					
353	gaa	gta	gtg	gtg	aaa	cat	gaa	gca	aag	gtt	aat	gct	ctg	gat	aat	ctt		1296
354	Glu	Val	Val	Val	Lys	His	Glu	Ala	Lys	Val	Asn	Ala	Leu	Asp	Asn	Leu		
355			420					425				430						
357	ggt	cag	act	tct	cta	cac	aga	gct	gca	tat	tgt	ggt	cat	cta	caa	acc		1344
358	Gly	Gln	Thr	Ser	Leu	His	Arg	Ala	Ala	Tyr	Cys	Gly	His	Leu	Gln	Thr		
359		435					440					445						
361	tgc	cgc	cta	ctc	ctg	agc	tat	ggg	tgt	gat	cct	aac	att	ata	tcc	ctt		1392
362	Cys	Arg	Leu	Leu	Leu	Ser	Tyr	Gly	Cys	Asp	Pro	Asn	Ile	Ile	Ser	Leu		
363		450				455					460							
365	cag	ggc	ttt	act	gct	tta	cag	atg	gga	aat	gaa	aat	gta	cag	caa	ctc		1440
366	Gln	Gly	Phe	Thr	Ala	Leu	Gln	Met	Gly	Asn	Glu	Asn	Val	Gln	Gln	Leu		
367	465					470				475					480			
369	ctc	caa	gag	ggt	atc	tca	tta	ggt	aat	tca	gag	gca	gac	aga	caa	ttg		1488
370	Leu	Gln	Glu	Gly	Ile	Ser	Leu	Gly	Asn	Ser	Glu	Ala	Asp	Arg	Gln	Leu		
371				485					490				495					
373	ctg	gaa	gct	gca	aag	gct	gga	gat	gtc	gaa	act	gta	aaa	aaa	ctg	tgt		1536
374	Leu	Glu	Ala	Ala	Lys	Ala	Gly	Asp	Val	Glu	Thr	Val	Lys	Lys	Leu	Cys		
375			500						505				510					
377	act	gtt	cag	agt	gtc	aac	tgc	aga	gac	att	gaa	ggg	cgt	cag	tct	aca		1584
378	Thr	Val	Gln	Ser	Val	Asn	Cys	Arg	Asp	Ile	Glu	Gly	Arg	Gln	Ser	Thr		

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/019,980

DATE: 05/14/2002
TIME: 16:23:22

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\05142002\J019980.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 1124,2672
Seq#:4; N Pos. 1102,2650
Seq#:4; Xaa Pos. 368,392,415,558,559,764,884
Seq#:5; Xaa Pos. 368,392,415,558,559,764,884